

18

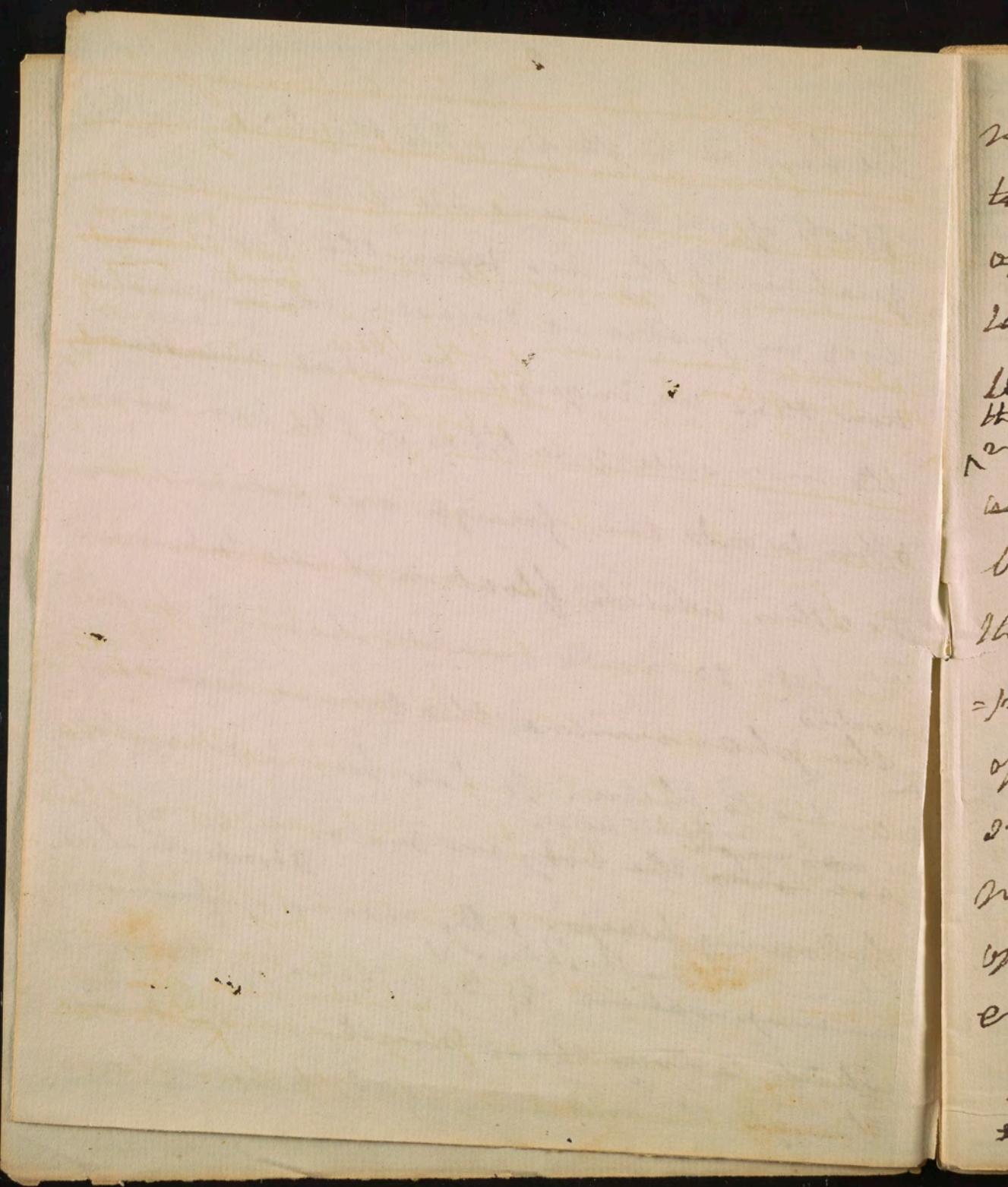
Yi 2
7396
F 13

are enigmatic forms? ^{are}

v 2 . By means of the lungs ^{saliva which}
~~inspir~~ conveys them to the stomach
and bowels . 3 By means of the lungs in
inspiration . and

we have at length finished the history of the effects of all the sensible and insensible qualities of the air upon the human body in producing Disease. But it remains now that we inquire in what ~~manner~~^{manner} the insensible qualities of the air, or in other words the foreign and extraneous matters which float in it are taken in the body so as to enable them to produce ~~excited~~ phenomena that have been as:-

* -cried to them. It has been supposed they enter ~~it~~ upon ^{into} the body in one or more of the following ways. 1 By means of ~~the nerves~~ which terminate on the Skin. ✓ 2 By respiration - 3 By means of the nerves which convey them directly to the brain through the medium of the nose. 3 By



2

means of the arteries which convey them
to the vessels and nerves &c, By means
of the Absorbents which terminate upon
the Skin. I admit the above ~~first~~ ^{means} ~~that~~ only
~~which~~ have been reject the ~~first~~ ^{most} ~~most~~ of
the absorption of ^{by the skin} morbid matter which produce disease only,
acting upon the system ^{altogether} and that not only
because the existence of Absorbents upon
the Skin has been ~~in a great degree dis-~~
proved, but from the unsuccessful issue
of many attempts to communicate the
small pox by binding & rubbing various
matter upon the Skin. The rejection of this
opinion will remove an immense mass of
error from medicine, and of fear & prejudice
from the minds of physicians ^{that} ~~it will~~
~~pose~~ ~~passing~~ them ~~not~~ to pull off their gloves

~~I have doubts of the miasma or contagious
and inducing disease than the very rising with the
Saliva and descending with it into the Stomach. The late
D^r Cowell of London~~

Similar affections of the abdominal
Viscera occur in the violent attacks of
the Small Pox, and yet no one has supposed
its contagion to act primarily upon
the stomach. We see moreover similar
and even greater commotions induced in
the system by certain diseases of the mind, &
and these we are sure act primarily upon
the brain.

It is no argument in favor of mias-
-mata acting primarily upon the stomach,
that an emetic prevents the formation of
the fumes induced by them. It acts not by
discharging any a gas from the stomach
but by its ^{its} ~~the~~ stimulus, and ^{the} new actions
it excites in every part of the body. I ad-
mit

3

When they feel the pulse of their patients, or
if they ventured to feel a few of its strokes with
naked fingers, it will prevent their ~~weak~~^{in a great}
inflaming them afterwards with frequent
ablutions of with alkaline mixtures, or
with soaps and water. ³ by that the fads of
some diseases are taken into the body by the wings,
but I believe miasma of all kinds act
chiefly ^{its} ~~it~~ upon the nerves & brain, and that
when they enter the body thro' the avenues
of the lungs ^{the nose, or} ~~and~~ ^{life} ~~and~~ ^{against their entrance}
~~in that way~~ ^{and} ~~they~~ ^{are} ~~are~~ ^{not} ~~not~~ ^{so} ~~so~~ ^{as} ~~as~~ ^{to} ~~to~~ ^{give} ~~give~~ ventil they ~~do~~ ^{act} upon the nervous
system. From the nerves they are commu-
nicated in ordinary cases of fever in the
first instance to the blood vessels. They affect
other parts of the body in proportion to their
or according to predisposition.
violence or malignity. That the nerves
are first affected by miasma I infer from
pain being so generally one of the first

~~I have doubts of the miasma or contagiousness~~ ^{of} inducing disease by the miasma rising with the saliva and descending with it into the Stomach. The late Dr. Cowell of Trenton informed me that he once cut a piece of thread thoroughly impregnated with variolous matter ~~to small~~ ^{into} small spirits & gave it to a child in a dose of physick, without inducing the small pox. From the ^{note} It is no argument in favor of the seeds of fever being absorbed by the Skin, that the Fever and the Venereal disease are communicated by contact. The former covers ^{the} body beyond the Skin, and the latter induces disease only when it comes in contact with fleshes or parts covered with a thin skin ^{as} ~~like~~ as the Glans penis, or internal surface of the Uterus and Vagina.

~~The result of the inoculation of variolous matter with carbonic acid gas in the Stomach and Bowels and both of from the hardness in a tube of Carbonic acid gas soon (the lungs & brain)~~

2^{ly}
I object likewise to the miasma and contagious inducing diseases by rising with saliva and descending with it into the stomach. The variolous matter ~~small pox~~ when taken into the stomach will not excite the small pox. This has been proved by the late Dr. Cowell at Trenton. I am disposed to believe that the Koinomiasma in the stomach, if conveyed there, would rather inoffensive, or perhaps counteract the production of disease. Carbonic acid gas, so deleterious in the lungs, we know is medicinal in the stomach, and ~~gives~~ a few spoonfuls of Ardent Spirits when taken into the stomach prevent the intoxication from their small ^{note} The kidneys, vomiting, Colic, and even the morbid affections of the liver which occur in bilious or koinomiasmatic fevers are all induced I believe by a primary affection of the system through the medium of the lungs ^{sympathetic} and the brain.

When they feel the pulses of their patients, or
if they ventured to feel a few of its strokes with
naked fingers, it will prevent their ~~wearing~~^{in a glass}
inflaming them afterwards with frequent
ablutions of with alkaline mixtures, or
with soaps and water. ³ by that the seeds of
some diseases are taken into the body by the lungs,
but I believe miasmata of all kinds act
chiefly & ^{it's} ~~chiefly~~ upon the nerves & brain, and that
when they enter the body thro' the avenues
of the lungs, ^{the nose, or} ~~the nose, or~~ ^{Lungs, against their entrance}
~~on that way~~ ^{they} ~~are~~ ^{are} ~~good~~ ^{good} Saliva, ^{they} ~~good~~ ^{good} are ineffectual
till they ~~so~~ ^{so} act upon the nervous
system. From the nerves they are communi-
cated in ordinary cases of fever in the
first instance to the blood vessels. They affect
other parts of the body in proportion to their
violence or malignity. That the nerves
are first affected by miasmata I infer from
pain being so generally one of the first

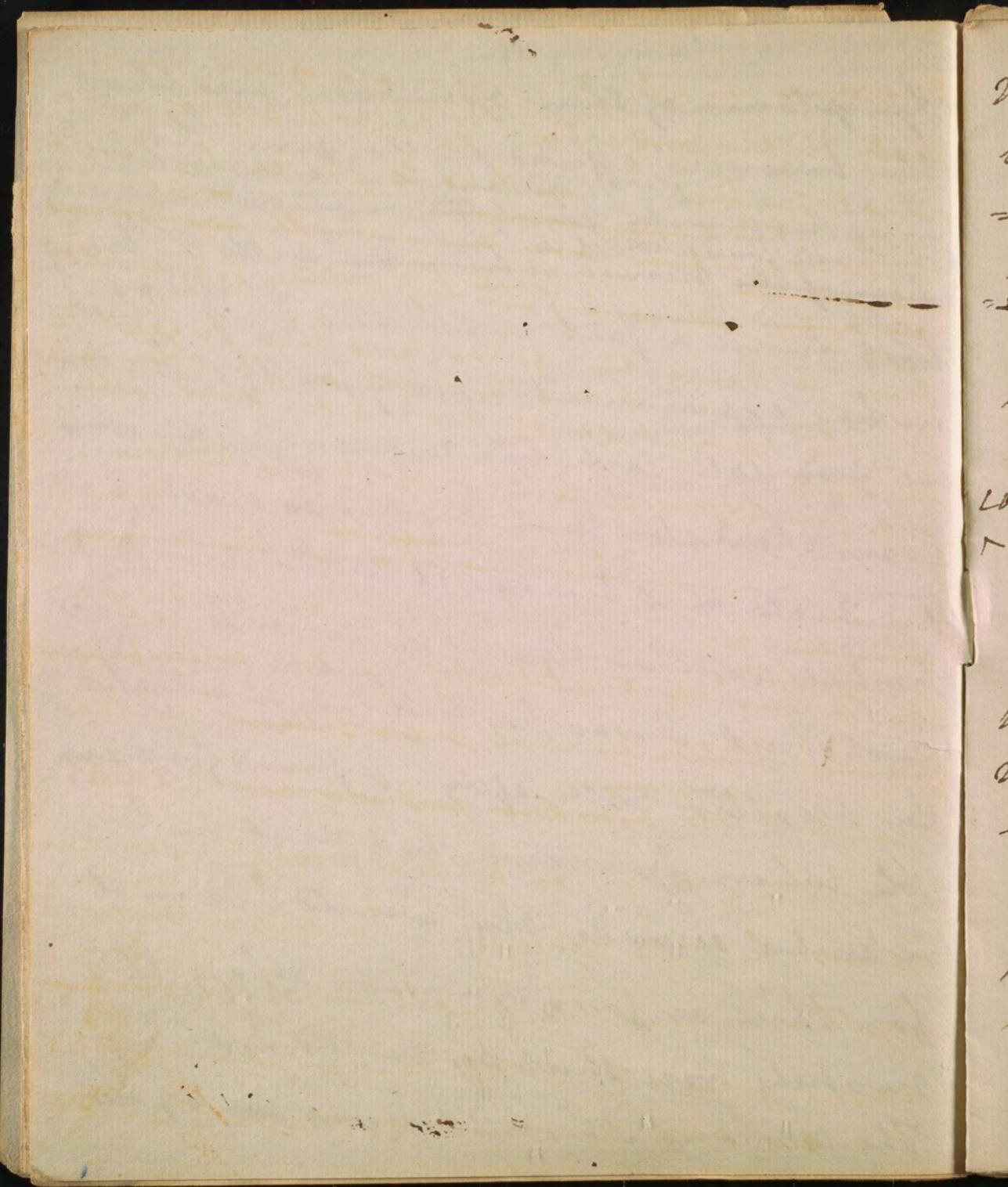
Affection of the brain. ^{The same symptoms are produced by}
the fever of the natural spot. We shall mention hereafter
many instances of similar effects from that cause,
particularly in treating upon the diseases of the mind.

~~The three causes were & to admit the primary
action of any of the glands upon the stomach and
bowels it should let the homoeopathic dilutions.
such kind of fevers~~

V 2 From the functions of the brain
being so much more ~~gradually~~ impaired by fevers from
which are from from exhaustion and
mismanagement of all kinds, than by fevers
from the accidents, or the sensible qualities
of the air. E g consumption & hectic fevers from
^{this} all its causes very rarely produce even a pain
in the head. -

4

symptoms of their operation, and that
the brain is affected at the same time. I
infer not only from the vicinity of the nose to the brain,
the intimate connection of its ^{the intimate connection of its} ~~the nerves of the nose~~ ^{to the brain}
~~base of the nose~~ with the brain,
^{13th} but from a fact mentioned by Dr Black
in his experiments upon fixed air, or what
we now call Carbonic Acid Gas. "I discovered
(says the Doctor) that this air ~~is~~ ^{to be} deadly to all
animals that breathe it by the mouth &
nostrils together; but if the nostrils were
kept shut, I was led to think it might
be breathed with safety. I found for exam-
ple, when Sparrows died in it in ten
or twelve seconds, they would live in it
for three or four minutes when the
nostrils were shut by melted Suet."
The opinions I am delivering ~~are~~ of ^{the}



manner in which miasmata act upon the body in the production of disease are of a material nature. They had to the early use of sometimes before those miasmata ^{if we admit that} ~~are known~~ ^{attaining} ~~only appear to the sense~~ ~~and before they have had~~ time to bring on fever, and they suggest to us the advantage of holding the breath for a short time, and constantly ^{holding the breath for a short time, and} we are exposed to morbid exhalations.

I have thus ~~described~~ ^{detained} the diseases which are produced by the sensible qualities of the air, or by foreign matters which plant it, & ~~and seldom~~ such as heat and cold affect individuals attack in a solitary form, or at the worst, in scattering parties, but the diseases which are produced by the insensible qualities of the ~~air~~ come forward in all the pomp of mighty Armies spreading distress, terror, and

~~Diarrhoeal Epidemics~~ I have said are produced by 1st foreign or irritating matter in the air. 2nd by bad provisions & 3rd by bad water. Sometimes they all three concur in the production of an epidemic - by one or two of them acting as predisposing causes.

Sometimes death through whole communities, cities and nations. In this complicated form they are called Epidemics. Terrible and destructive as they often are, they ~~do~~^{not} exist, nor act by an immutable decree of Heaven. ^{They may be foreseen —} They may be known; — they may be prevented; — they may be resisted, & they may be vanquished by the power of medicine. The ^{beginnings} ~~limits~~ of pathology ~~with~~ is to deliver ~~Confesses at present to~~ a history of their laws, ^{only,} and of the phenomena which precede and accompany them. The means of preventing and curing them will be mentioned in our Therapeutics & the practice of Physic.

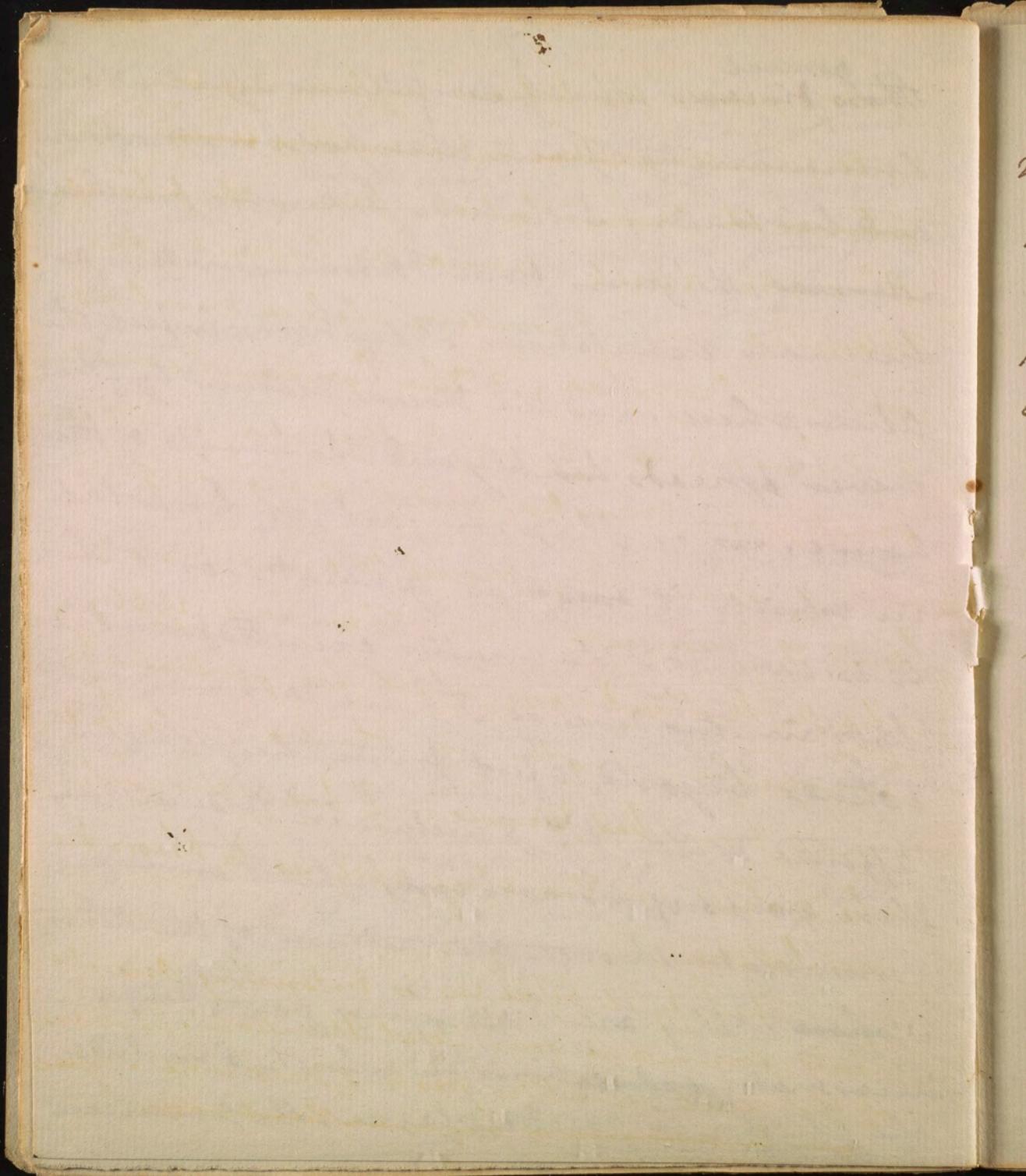
I exclude from Epidemics ^{all} those p[er]sons which are induced by the sensibility of ~~to~~ ~~which I am liable to communicate~~ ~~all~~ ~~Cities of the air, and the~~

V are 1 produced by foreign matters in
the atmosphere - 2 by bad provisions &
3 by bad water. To the diseases from foreign
or irritating matters in the air belong

VI This was evinced in many instances
during ^{our} the Revolutionary War, for while
two or three, and often more of our
soldiers died of the hospital fever ^{every day} in the hospitals
~~at~~ in the houses of employment in Philadelphia
in the College at Princeton & in the bathhouse's
house at Bethlehem in this state, the inhab-
-itants of all those places were perfectly
healthy. —

7

~~general~~ those diseases which sometimes affect whole communities from unwholesome provisions, and bad water, I exclude, likewise from Epidemics, the fevers from Idiomias matic, or human exhalations. They never infect the atmosphere, and the disease produced by them never spreads beyond the limits of the house, or ship, or jail, or hospital in which it ~~exists~~ is generated, or to which it is carried. The matter excreted from the body in this disease I have said never extends beyond 10 feet from the persons affected with it. I include in Epidemics only those groups of diseases ~~only~~ which are communicated through the medium of the Atmosphere. They are ^V all taken from Idiomias matic exhalations in which I include the African or Asiatic plague, the American

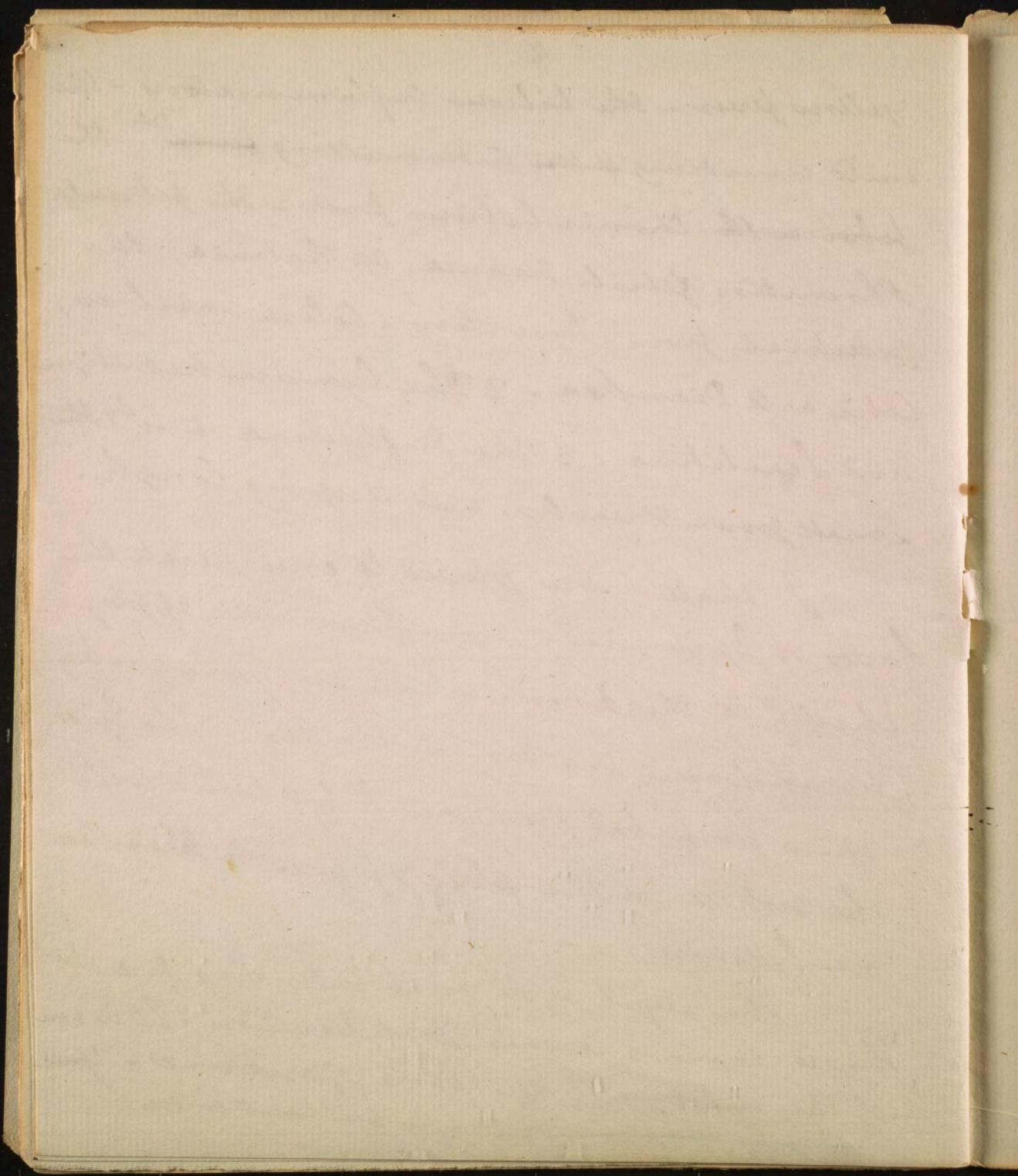


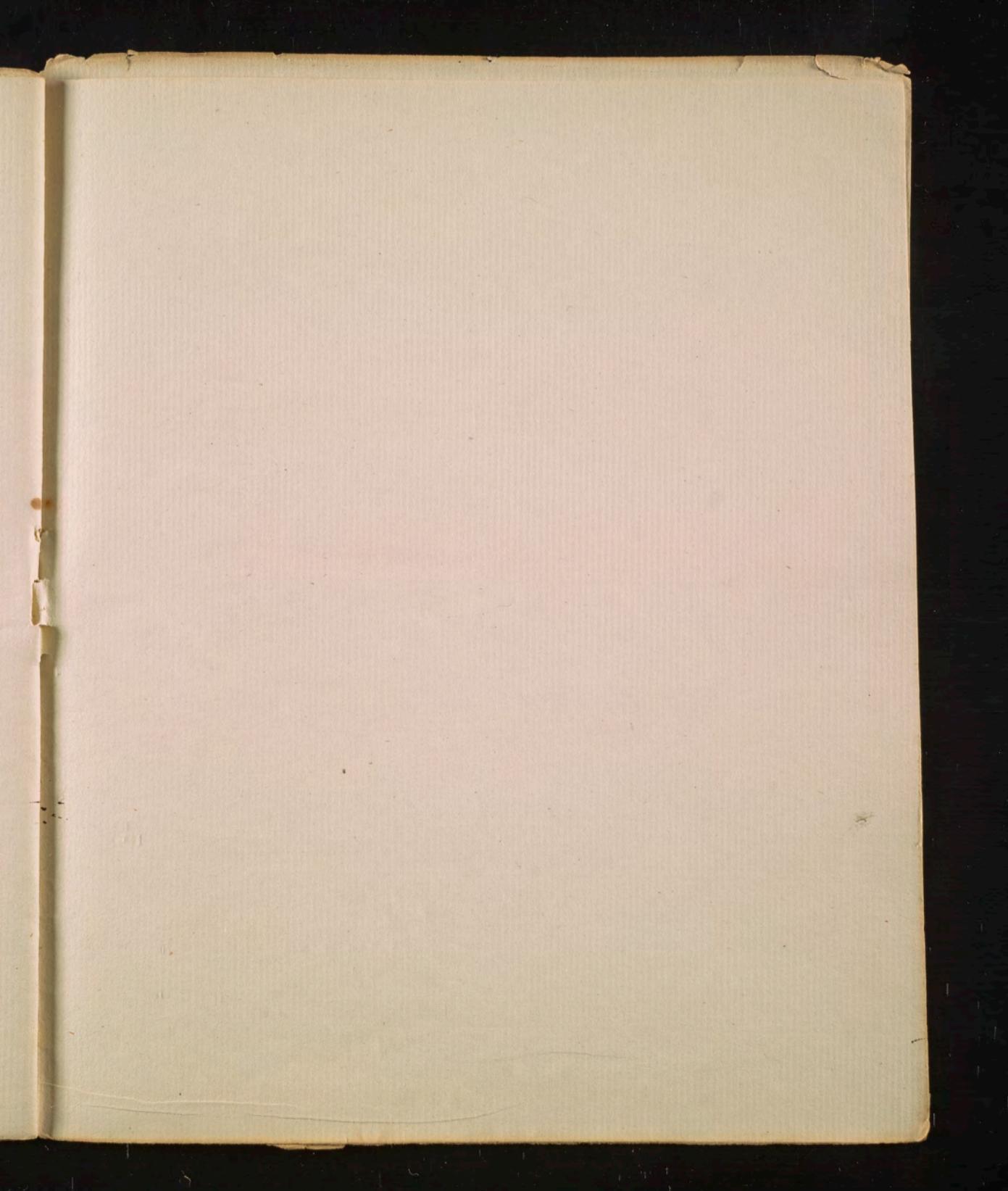
8

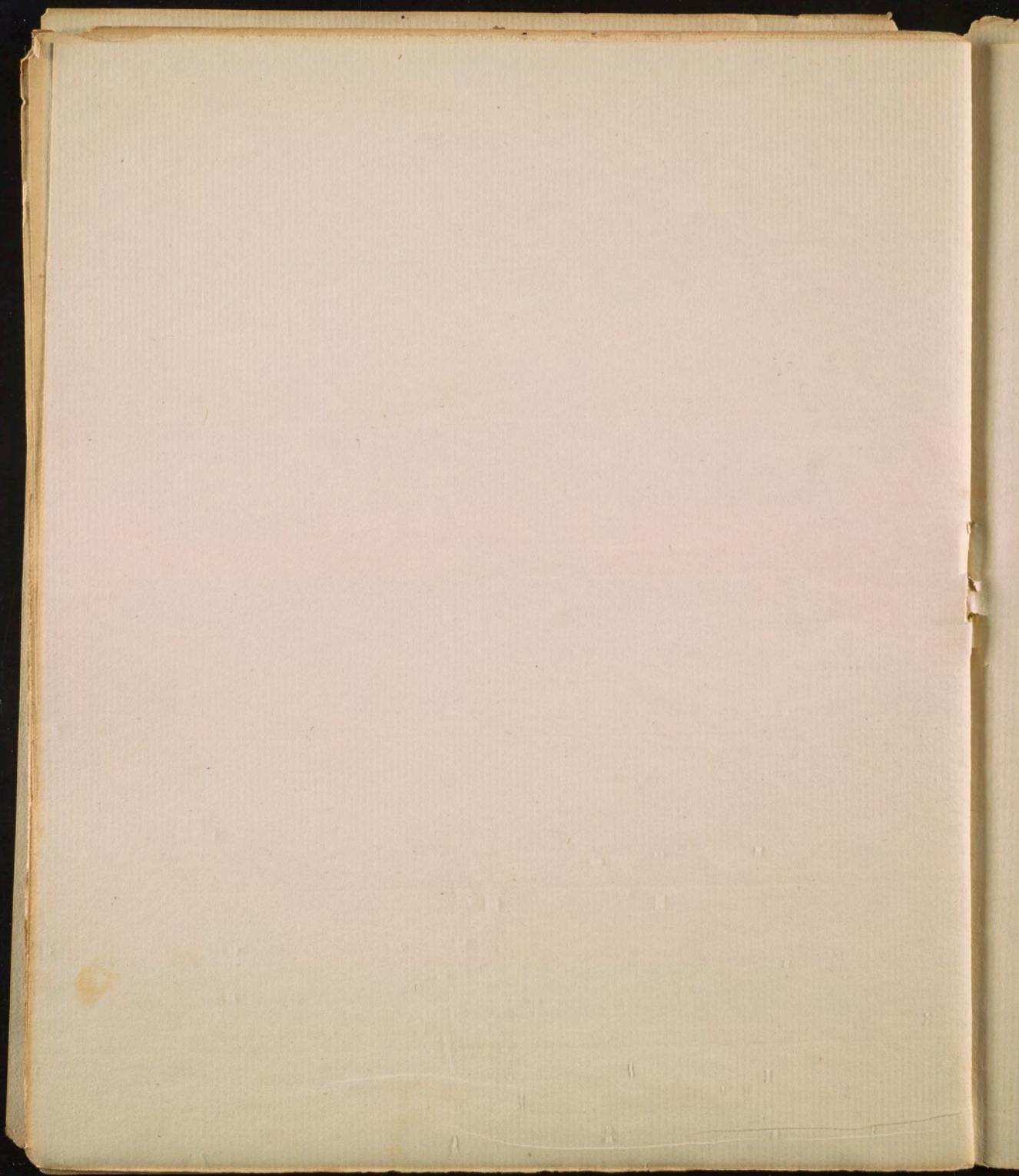
yellow fever - the bilious inflammatory - the
mild eruptive & the intermitting fever - the
febris of the Chronic bilious fever - the febricula,
Phrenitis, Febrile Mania, Asthma, the
petechial fever - Dysentery - Colsa morbus,
Colic and Diarrhea. 2 The Cyananche maligna
and Scrofula. 3 The Influenza & by the
Small pox - Measles, and Hooping Cough.

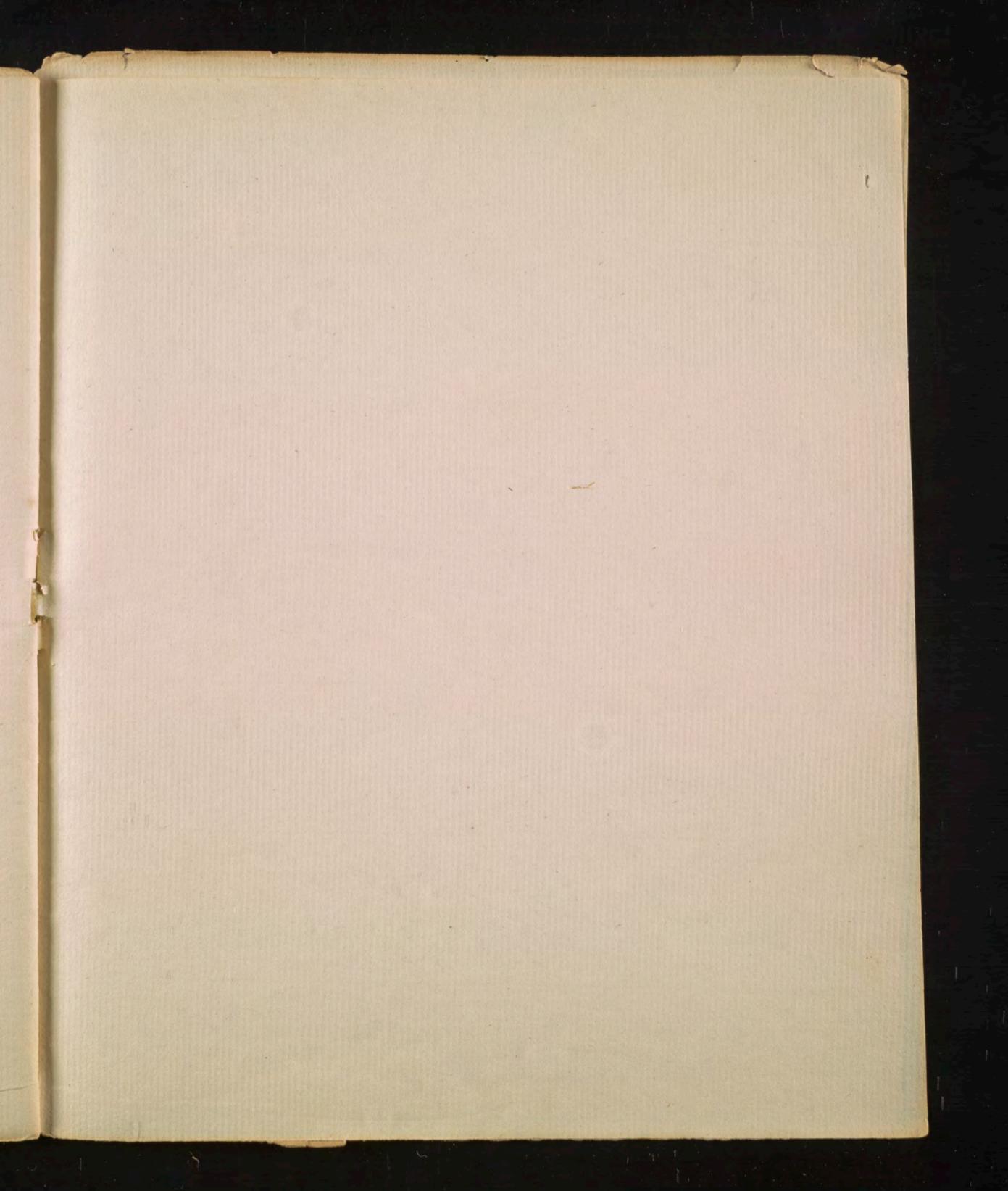
I shall now proceed to enumerate the
laws of Epidemics. — These will apply
chiefly to the Diseases which are generated by
unwholesome matter in the air. The Epide-
= mics from bad provisions & bad water will
be noticed in the place apsigned to them in
our Syllabus. —

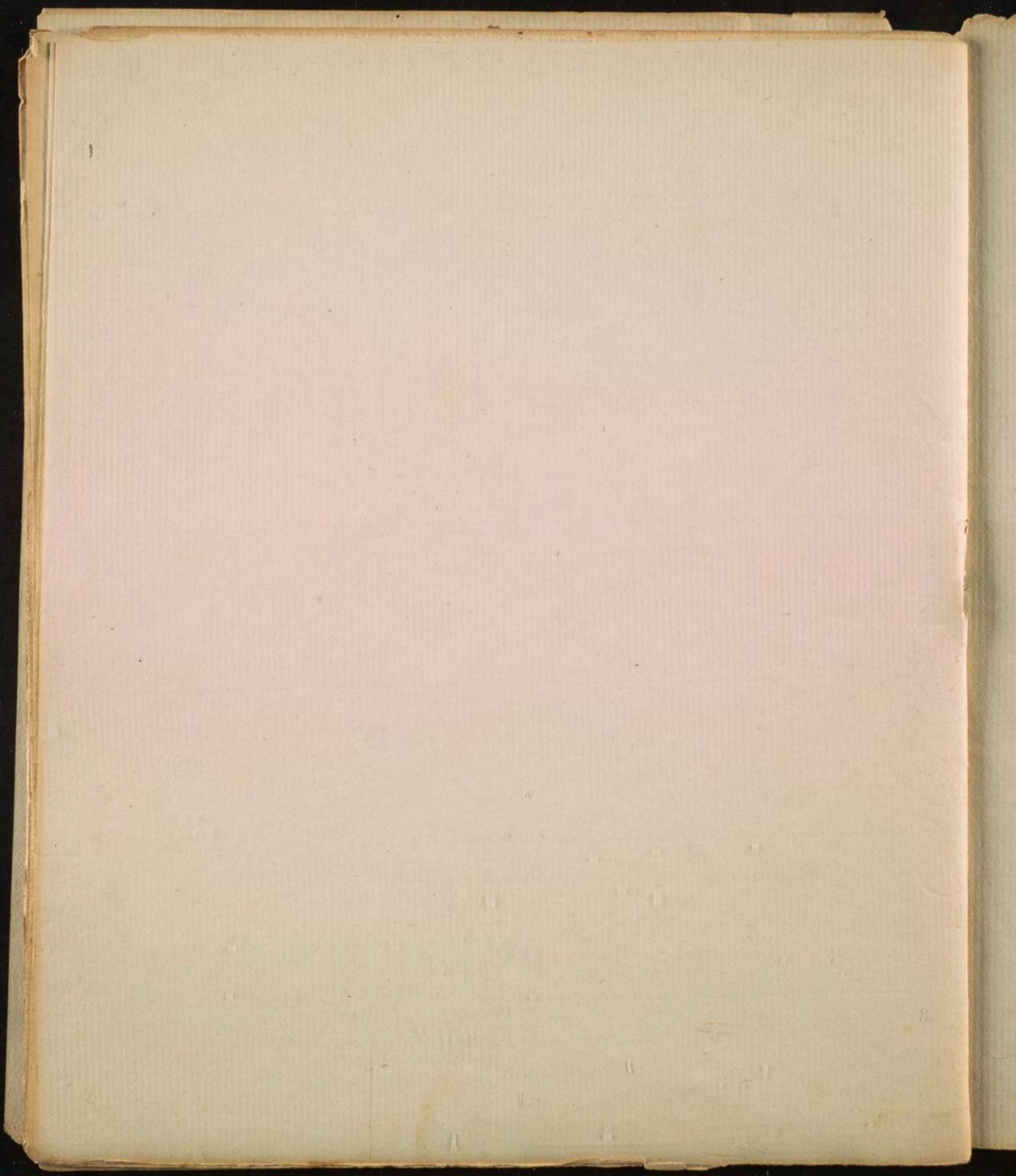
The Subject before us is interesting one, &
should command your closest Attention. It is one
of the most scientific parts of medicine. You
~~may be practitioners of physic without books~~

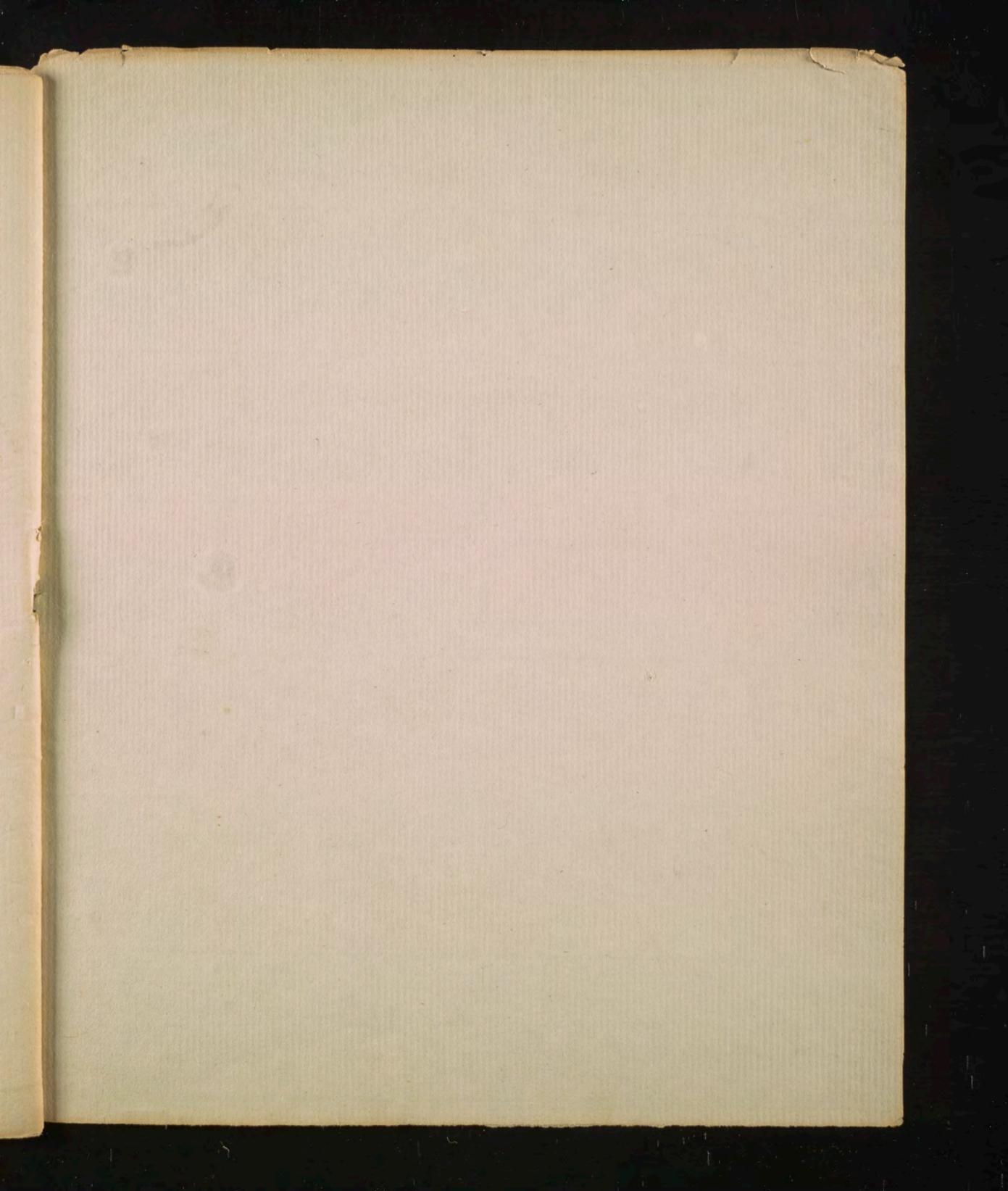












27/11